



SAFETY DATA SHEET

ETHYLBENZENE 99%
501526

Revision Date: 04/11/2013
Print Date: 1/27/2014
MSDS Number: 100000002772
Version: 1.0

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Nexeo Solutions	Regulatory Information Number	1-855-429-2661
PO Box 2458	Telephone	1-855-429-2661
Columbus, OH 43216	Emergency telephone number	1-855-639-3648
Product name	ETHYLBENZENE 99%	
Product code	501526	
Product Use Description	Manufacture of chemical products Solvent.	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, clear

WARNING! FLAMMABLE LIQUID AND VAPOR.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Unlikely to cause eye irritation or injury.

Skin contact

Unlikely to cause skin irritation or injury.

Ingestion

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Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Breathing of vapor or mist is possible. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

No data

Symptoms

No data

Target Organs

No data

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

No data

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / trade secret no.	Concentration
Ethylbenzene	100-41-4	90 - 100%

4. FIRST AID MEASURES



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Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

No data

Precautions for fire-fighting

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Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification Flammable Liquid Class IB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

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7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ethylbenzene		100-41-4
ACGIH	8-hour, time-weighted average	100 ppm
ACGIH	Short-term exposure limit	125 ppm
NIOSH	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	100 ppm
NIOSH	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	435 mg/m3
NIOSH	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	125 ppm
NIOSH	STEL - 15-minute TWA exposure that should not be	545 mg/m3

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	exceeded at any time during a workday	
OSHA	8-hour time weighted average	100 ppm
OSHA	8-hour time weighted average	435 mg/m3
OSHA	8-hour time weighted average	100 ppm
OSHA	8-hour time weighted average	435 mg/m3
OSHA	Short-term exposure limit	125 ppm
OSHA	Short-term exposure limit	545 mg/m3

General advice

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	liquid
Colour	clear
Odour	aromatic
Boiling point/boiling range	277.2 °F / 136.2 °C
Melting point/range	Melting point/range -139 °F / -95 °C
pH	no data available
Flash point	55.0 °F / 12.8 °C
Lower explosion limit/Upper explosion limit	0.8 %(V) / 12.8 %(V)
Vapour pressure	7.000 mmHg @ 68 °F / 20 °C
Relative vapor density	3.66 (Air = 1.0)
Density	no data available
Water solubility	slightly soluble
Partition coefficient: n-octanol/water	3.15
Auto-ignition temperature	810.00 °F / 432.22 °C

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions.

Conditions to avoid

Avoid heat, open flame, and prolonged storage at elevated temperatures. Exposure to sunlight.

Incompatible products

strong oxidizing agents

Hazardous decomposition products

No data

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Hazardous reactions

Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity - : no data available
Product

Acute oral toxicity - Components

Ethylbenzene : Remarks: no data available

Acute inhalation toxicity

Acute inhalation toxicity - : no data available
Product

Acute inhalation toxicity - Components

Ethylbenzene : Remarks: no data available

Acute dermal toxicity

Acute dermal toxicity - : no data available
Product

Acute dermal toxicity - Components

Ethylbenzene : LD50: 17,800 mg/kg Species: rabbit

Acute toxicity (other routes of administration)

Acute toxicity (other : no data available
routes of administration)

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12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

Ethylbenzene : Remarks: Readily biodegradable

Bioaccumulation

Bioaccumulation - Product : no data available

Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : LC50: 1,780 mg/l
Exposure time: 96 h
Species: Menidia menidia (Atlantic silverside)
Method: Flow through

Toxicity to fish - Components

Ethylbenzene : LC50: 5.1 mg/l
Exposure time: 96 h
Species: Menidia menidia (Atlantic silverside)
Analytical monitoring: yes
Method: Flow through

Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates : no data available
- Product

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Toxicity to algae

Toxicity to algae -	: 3.6 mg/l
Product	Exposure time: 96 h
	Species: Green algae (<i>Selenastrum capricornutum</i>)
	Analytical monitoring: yes
	Method: Static

Toxicity to algae - Components

Ethylbenzene	: EC50: 3.6 mg/l
	Exposure time: 96 h
	Species: <i>Selenastrum capricornutum</i> (green algae)
	Analytical monitoring: yes
	Method: Static

Toxicity to bacteria

Toxicity to bacteria -	: no data available
Product	

Toxicity to bacteria - Components

Ethylbenzene	:
	Remarks: no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

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14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

UN 1175	ETILBENCENO	3		II	
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U.S. DOT - RAIL

UN 1175	ETHYLBENZENE	3		II	
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U.S. DOT - INLAND WATERWAYS

UN 1175	ETHYLBENZENE	3		II	
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TRANSPORT CANADA - ROAD

UN 1175	ETHYLBENZENE	3		II	
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TRANSPORT CANADA - RAIL

UN 1175	ETHYLBENZENE	3		II	
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TRANSPORT CANADA - INLAND WATERWAYS

UN 1175	ETHYLBENZENE	3		II	
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1175	ETHYLBENZENE	3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1175	Ethylbenzene	3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1175	ETHYLBENZENE	3		II	
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1175	ETHYLBENZENE	3	II
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Hazard Classification SARA 311/312 Classification

Fire Hazard
Chronic Health Hazard

New Jersey RTK Label Information

Ethylbenzene 100-41-4

Pennsylvania RTK Label Information

Ethylbenzene 100-41-4

Notification status

1907/2006 (EU)	n (Negative listing)
Switzerland. New notified substances and declared preparations	y (positive listing)
United States TSCA Inventory	y (positive listing)
Canadian Domestic Substances List (DSL)	y (positive listing)
Australia Inventory of Chemical Substances (AICS)	y (positive listing)
New Zealand. Inventory of Chemical Substances	y (positive listing)
Japan. ENCS - Existing and New Chemical Substances Inventory	y (positive listing)
Japan. ISHL - Inventory of Chemical Substances (METI)	y (positive listing)

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Korea. Korean Existing Chemicals Inventory (KECI)	y (positive listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)
China. Inventory of Existing Chemical Substances in China (IECSC)	y (positive listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	1000 lbs
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Reportable quantity-Components

Ethylbenzene	100-41-4	1000 lbs
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	HMIS	NFPA
Health	2*	2
Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.